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YES NO N/A

PACKAGE COMPLETENESS AND DELIVERABLES

CASE	NUMBE	ER:	SDG	SDG#		
LAB:_			SIT	E:		
1.0	<u>Data</u>	Compl	eteness and Deliverables			
	1.1		all the data been submitte verable format?	d in CLP		
	1.2		any missing deliverables added to the data package?			
	ACTI(ON:	Call lab for explanation/missing deliverables. If them, note the effect on in the reviewer narrative	lab cannot provide review of the data		
2.0	<u>Cove</u> :	r Lett	er, SDG Narrative			
	2.1	Is a	laboratory narrative or c ent?	over letter		
	2.2		the case number and/or SDG ne narrative or cover lett			
3.0	<u>Data</u>	Valio	lation Checklist			
	3.1	Does	this data package contain	:		
		Wate	r data?			
		Wast	e data?			
		Soil	/solid data?			

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YES NO N/A

__ [_] __

POLYCHLORINATED BIPHENYLS

1.0	Traff	ic Re	ports and Lab	oratory Narr	<u>ative</u>		
	1.1		raffic repor		of-custody fo	rms	
	ACTIC	ON:	If no, conta illegible co	ect lab for reppies.	eplacement of	f missing or	
	1.2	SDG r recei probl	ne traffic reparative ind pt, condition ems or speciaty of the da	icate any pro n of the samp al circumstan	oblems with s oles, analyti	ample cal	
	ACTIO		than TCLP, co should be qu soil sample,	alified as es other than s er, non detec)% water, all stimated, "J. TCLP, contair	data ." If a ns more	
	ACTIO	N:	<pre>melted upon temperature (> 10° C),</pre>	ere not iced arrival at the of the coole: flag all post	he laboratory r was elevate itive results	y and the ed	

2.0 Holding Times

2.1 Have any PCB technical holding times, determined from date of collection to date of extraction, been exceeded?

Water and waste samples for PCB analysis must be extracted within 7 days of the date of collection. Extracts must be analyzed within 40 days of the date of extraction. Soils and solid samples must be extracted within 14 days of collection and analyzed within 40 days of extraction.

ACTION: If technical holding times are exceeded, flag all positive results as estimated, "J," and sample quantitation limits "UJ" and document in the narrative that holding times were exceeded. If analyses were done more than 14 days beyond holding time, either on the first analysis or upon re-analysis, the reviewer must use

YES NO N/A

professional judgement to determine the reliability of the data and the effects of additional storage on the sample results. At a minimum, all the data should at least be qualified "J", but the reviewer may determine that non-detects are unusable, "R."

3.0 <u>Surrogate Recovery (Form II)</u>

DUIL	ogucc	1.000 vol y (101m 11)		
3.1	and Surr	the recoveries of tetrachloro-m-xylene (TCMX) decachlorobiphenyl (DCB) presented on CLP ogate Recovery Summary forms (Form II), or valent, for each of the following matrices?		
		a. Water/Waste		
		b. Soil/Solid		
3.2	appr	all the PCB samples listed on the opriate surrogate recovery form for each of following matrices?		
	a.	Water		
	b.	Waste		
	С.	Soil/Solid		
ACTI(ON:	Call lab for explanation/resubmittals. If missing deliverables are unavailable, document the effect in the data assessment.		
3.3		the laboratory provide their developed in-house ogate recoveries?		
ACTIO	ON:	If no, use 70 -130% recovery to qualify in section 3.4 below.		
3.4	of t	surrogate recoveries of TCMX or DCB outside he laboratory-established upper (UCL) or lower) control limits for any sample or blank?		
ACTIO	ON:	Circle all outliers in red.		
ACTI	ON:	No qualification is done if surrogates are		

diluted out. If recovery for **both** surrogates is

YES NO N/A

[] _____

___ [_] ___

below the LCL, but above 10%, flag all results for that sample "J". If recovery is < 10% for either surrogate, qualify positive results "J" and flag non-detects "R". If recovery is above the UCL for \underline{both} surrogates qualify positive values "J".

Note: DCB is used when PCBs are determined as Aroclors. DCB is the internal standard when determining PCB congeners and TCMX the surrogate.

3.5 Were surrogate retention times (RT) within the windows established during the initial 5-point analysis?

ACTION: If the RT limits are not met, the analysis may be qualified unusable (R) for that sample on the basis of professional judgement. However, flag positive hits as estimate (J) if confirmed by GC/MS analysis.

3.6 Are there any transcription/calculation errors between raw data and Form II?

ACTION: If large errors exist, call lab for explanation/resubmittal. Make any necessary corrections and document the effect in data assessments.

4.0 <u>Laboratory Control Sample</u>

4.1 Are raw data and percent recoveries present for all <u>Laboratory Control</u> samples as required by Method 8000B (section 8.5) and Method 8082 (section 8.4.2)?

Verify that QC check samples were extracted and analyzed by the same procedures used for the actual samples.

ACTION: If any <u>Laboratory Control</u> <u>Sample</u> data are missing, call the lab for explanation /resubmittals. Make note in the data assessment.

NOTE: For aqueous samples, an additional QC check sample must be prepared and analyzed when any analyte in a matrix spike fails the required acceptance criteria (see section 5.3 below). The additional QC check sample must contain each analyte that failed in the MS analysis.

5.0

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YES NO N/A

Note:		When the results for matrix spike analysis indicated problem due to sample matrix effects, the LCS results are used to verify the laboratory can perform the in a clean sample.	sults	
4.2	at t of i	<u>Laboratory Control Samples</u> analyzed he required concentration for all analytes nterest as specified in Method 8000B .8.5)?		
ACTIO	N:	If <u>Laboratory Control</u> <u>Samples</u> were not analyzed at the required concentration or the required frequency, make note in the data assessment and use professional judgement to determined the affect on the data.		
4.3		the LCS recoveries within the laboratory's in-hou ent recoveries (if not available, use 70 - 130%)	se <u>[]</u>	
4.4		, were <u>Laboratory Control</u> <u>Sample</u> s alyzed?		
Note:		Corrective action must be taken when one or more of the analytes of interest fail the QC acceptance criteria (Method 8000B, section 8.7.4)	ce	
ACTION:		If QC check samples were not re-analyzed, or a general system problem is indicated by repeated failure to meet the QC acceptance criteria specified in the method, make note in the data assessment and use professional judgement to determine the effect on the data.		
<u>Matri</u>	x Spil	kes (Form III)		
5.1	(unsp dupli	ll data for one matrix spike and matrix duplicate iked) pair (MS/Dup) or matrix spike/matric spike cate (MS/MSD) present and complete for each matrix d 8082 (section 8.4.1)?		
NOTE:		For soil and waste samples showing detectable amounts of organics, the lab may substitute replicate samples in place of the matrix spike (see Method 8000B-40, section 8.5.3)).		
5.2		MS/Dup or MS/MSD results been summarized on ied CLP Form III?		
ACTIO	N:	If any data are missing take action as specified in section 3.2 above.		

5.3 Were matrix spikes analyzed at the required frequency

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YES NO N/A

for each of the following matrices? (One MS/Dup, MS/MSD must be performed for every 20 samples of similar matrix or concentration level. Laboratories analyzing one to ten samples per month are required to analyze at least one MS per month (Method 8000B-39 (section 8.5)).

	a.	Water		
	b.	Waste		
	С.	Soil/Solid		
ACTIC	N:	If any MS/Dup or MS/MSD data are missing, take the action specified in 3.2 above.		
5.4	compa lab u	the 70 - 130% recoveries used to are the matrix spike recoveries, or did the ase the optional QC acceptance criteria assed in Method 8000B-40 (section 8.5.3.1)?		
		the criteria used and make note in assessment.		
	Crite	eria used		
5.5		the matrix spike prepared at the proper spike entration? (Method 8000B, section 8.5.1-8.5.2)		
		equeous organic extractable, the spike concentrating de prepared according options in: Method 8000B-		

ACTION: No action is taken based on MS or replicate data alone. However, using informed professional judgement, the data reviewer may use the matrix spike or laboratory replicate results in conjunction with other QC criteria and determine the need for some qualification of the data. In some instances it may be determined that only the replicate or spiked samples are affected. Alternatively, the data may suggest that the laboratory is having a systematic problem with one or more analytes, thereby affecting all associated samples.

(section 8.5.1 and 8.5.2).

6.0 Blanks (Form IV)

7.0

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			YES	NO	N/A
6.1		reagent blank data reported on CLP equivalent od Blank Summary form(s) (Form IV)?			
6.2	anal of s	quency of Analysis: Has a reagent blank been yzed for every 20 (or less) samples imilar matrix or concentration or each action batch?			
ACTI	ON:	If any blank data are missing, take action as specified above (section 3.2). If blank data is not available, reject (R) all associated positive data. However, using professional judgement, the data reviewer may substitute field blank data for missing method blank data.	re le		
6.3	chro	matography: review the blank raw data - matograms, quant reports or data system touts.			
		he chromatographic performance (baseline ility) for each instrument acceptable for ?			
ACTI	ON:	Use professional judgement to determine the effect on the data.			
Cont	amina	tion			
NOTE	:	"Water blanks", "distilled water blanks" and "drilling water blanks" are validated like any other sample and are <u>not</u> used to qualify the data. Do not confuse them with the other QC blanks discussed below.			
7.1	have desc in t Dilu	ny method/instrument/reagent/cleanup blanks positive results for PCBs? When applied as ribed below, the contaminant concentration hese blanks are multiplied by the sample tion Factor and corrected for % moisture necessary.			
7.2		ny field/rinse blanks have positive results?			
ACTI	ON:	Prepare a list of the samples associated with each of the contaminated blanks. (Attach a separate sheet.)			
NOTE	:	All field blank results associated to a particular group of samples (may exceed one per case or one per day) may be used to qualify data	ı .		

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<u>[]</u> _

YES NO N/A

Blanks may not be qualified because of contamination in another blank. Field blanks must be qualified for surrogate, or calibration QC problems.

ACTION: Follow the directions in the table below to qualify sample results due to contamination. Use the largest value from all the associated blanks.

Sample conc > EDL but < 5 x blank	Sample conc < EDL & is < 5 x blank value	Sample conc > EDL & > 5 x blank value
Flag sample result with a "U"	Report EDL & qualify	No qualification is needed

NOTE: If gross blank contamination exists, all data in the associated samples should be qualified as unusable (R).

- 7.3 Are there field/rinse/equipment blanks associated with every sample?
- ACTION: For low level samples, note in data assessment that there is no associated field/rinse/equipment blank. Exception: samples taken from a drinking water tap do not have associated field blanks.
- 8.0 GC Apparatus and Materials
 - 8.1 Was the proper gas chromatographic capillary column used for the analysis of PCBs?

Action: Check raw data, instrument logs, or contact the lab to determine what type of columns were used. (Method 8082, section 4.2)

8.2 Indicate the specific type of narrow bore or wide bore (.53 mm ID, fused silica GC columns, such as DB-608 and DB-1701 or equivalent).

column 1: _____

column 2:

ACTION: Note any changes to the suggested materials in section 8.1 above in the data assessment. Also note the impact (positive or negative) such changes have on the analytical results.

YES NO N/A

9.0	Calibration	and GC	: Performance

9.1	Are the following Gas Chromatograms and Data Systems Printouts for both columns present for all samples, blanks, MS, replicates?		
	a. Samples		
	b. All blanks		
	c. Matrix spike samples		
	d. 5 pt. initial calibration standards		
	e. calibration verification standards		
	f. Laboratory Control samples (LCS)		
ACTIO	N: If no, take action specified in 3.2 above.		
9.2	Are data summary forms (containing calibration factors or response factors) for the initial 5 pt. calibration and daily calibration verification standards present and complete for each column and each analytical sequence?		
Note:	Calibration Aroclor mixtures other than 1016/1260 may be used (as per approved project QA plan)		
NOTE:	If internal standard calibration procedure is used (Method 8000B-15(section 7.4.2.2)), then response factors must be used for %RSD calculations and compound quantitation. If, external standard calibration procedures are used (Method 8000B-16 (section 7.4.2.1)), then calibration factors must be used. The internal standard approach is highly recommended for PCB congener analysis.		
ACTIO	N: If any data are missing or it cannot be determined how the laboratory calculated calibration factors or response factors, contact the lab for explanation/resubmittals. Make necessary corrections and note any problems in the data assessment.		
9.3	Are there any transcription/calculation errors between raw data and data summary forms?		
ACTIO	N: If large errors exist, call lab for		

YES NO N/A

[]

explanation/resubmittal, make necessary corrections and document the effect in data assessments.

9.4 Are standard retention time (RT) windows for each PCB peak of interest presented on modified CLP summary forms?

ACTION: If any data are missing, or it cannot be determined how RT windows were calculated, call the lab for explanation/resubmittals. Note any problems in the data assessment.

NOTE: Retention time windows for all PCBs are established using retention times from three calibration standards analyzed during the entire analytical sequence (Method 8000B, section 7.6).

Best results are obtained using retention times which span the entire sequence; i.e., using the calibration verification/continuing calibration standards analyzed every 12 hours.

- 9.5 Were RT windows on the confirmation column established using three standards as described above?
- NOTE: RT windows for the confirmation column should be established using a 3 pt. calibration, preferably spanning the entire analytical sequence as described in 9.4 above. If RT windows on one column are tighter than the other, this may result in false negatives when attempting to identify compounds in the samples.

ACTION: Note potential problems, if any, in the data assessment.

- 9.6 Do all standard retention times in each level of the initial 5 pt. calibrations for PCBs fall within the windows established during the initial calibration sequence?
- ACTION i: If no, all samples in the entire analytical sequence are potentially affected. Check to see if three standard spanning the entire sequence were used to obtained RT windows. If the lab used three standards from the 5 pt., RT windows may be too tight. If so, RT windows should be recalculated as per Method 8081B-15 (section 7.4.6).
 - ii. Alternatively, check to see if the chromatograms contain peaks

[_]__

YES NO N/A

within an expanded window surrounding the expected retention times.

If no peaks are found and the surrogates are visible, non-detects are valid. If peaks are present but cannot be discerned through pattern recognition or by using revised RT windows, qualify all positive results and non-detects as unusable, "R".

- 9.7 Has the linearity criteria for the initial calibration standards been satisfied for both columns? (% RSD must be < 20.0% for all analytes).
- ACTION: If no, qualify all associated positive results generated during the entire analytical sequence "J" and all non-detects "UJ". When RSD > 90%, flag all non-detect results for that analyte "R" (unusable).
- 9.9 Has a calibration verification/continuing calibration standard been analyzed after every 10 samples and at the end of each analytical sequence (Method 8082, section 7.6.2)

ACTION: If no, take action as specified in section 3.2 above.

- 9.11 Has a new 5 pt. initial calibration curve been generated for those PCB analytes which failed in the calibration verification/continuing calibration standard (8000B, section 7.7.3), and all samples which followed the out-of-control calibration verification/standard continuing calibration Standard?

ACTION: If the %D for any analyte exceeded the ± 15% criterion and the instrument was not recalibrated for those analytes, qualify positive results for all associated samples (those which followed the out-of-control standard) "J" and sample quantitation limits "UJ". If the %D was > 90%

YES NO N/A

for any analyte, qualify non-detects "R", unusable.

9.12 Have retention time (RT) windows been properly calculated for each analyte of interest (Method 8000B, section 7.6), using RTs from the associated calibration verification/continuing standard?

ACTION: If no, take action specified in section 3.2 above

- 9.13 Do all standard retention times for each calibration verification/continuing calibration standard fall within the windows established during the initial calibration sequence?
- 9.14 Do all standard retention times for each midconcentration standard (analyzed after every 10 samples) fall within the <u>daily</u> RT windows [] _____

ACTION:

If the answer to either 9.13 or 9.14 above is no, check the chromatograms of all samples which followed the last in-control standard. All samples analyzed after the last in-control standard must be re-injected, if initial analysis indicated the presence of the specific analyte that exceeded the retention time criteria. If samples were not re-analyzed, document under Contract Non-compliance in the Data Assessment.

Reviewer has two options to determine how to qualify questionable sample data. First option is to determine if possible peaks are present within daily retention time window. If no possible peaks are found, non-detects are valid. If possible peaks are found (or interference), qualify positive hits as presumptively present "NJ" and non-detects are rejected "R". Second option is to use the ratio of the retention time of the analyte over the retention time of either surrogate. The passing criteria is \pm 0.06 RRT units of the RRT of the standard component. Reject "R" all questionable analytes exceeding criteria, and "NJ" all other positive hits.

For any multi-response analytes, retention time windows should be used but analyst and reviewer should rely primarily on pattern recognition or use option 2 specified in paragraph above.

9.15 Are there any transcription/calculation errors

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	1. Separatory funnel (Method 3510)	<u> </u>
	 Continuous liquid-liquid extraction (Method 3520) 	П — —
	3. Solid phase extraction (Method 3535)	Ш — —
	4. Other	Ш — —
2.	Solid samples:	r 1
	1. Soxhlet (Method 3540)	

			YES	NO	N/A
		2. Automated Soxhlet (Method 3541)			
		3. Pressurized fluid (Method 3545)			
		4. Microwave extraction (Method 3546)	[]		
		5. Ultrasonic extraction (Method 3550)	[]		
		6. Supercritical fluid (Method 3562)	[]		
		7. Other	[]		
11 1	Extract C	<pre>leanup - Efficiency Verification (Form IX)</pre>			·
T T • T	EXCIACE C	reamup Efficiency Verification (Form 1X)			
	11.1.1	Method 8082 (section 7.2) references method 3660 (sulfur) and 3665A (sulfuric acid) to use Cleaning extracts. Were one or both method use			
	ACTION:	If no, take action specified in 3.2 above. If data suggests cleanup was not performed, make note in the data assessment.			
	NOTE:	Method 3620A, Florisil, may be used per approve project QA plan. The method does not list whi analytes and surrogate(s) to use to verify colu efficiency. The reviewer must check project pl to verify method used as well as the correct PC list. If not stated or available, use the CLP listing or accept what the laboratory used.	ch mn an		
		all samples listed on modified CLP PCBs risil/Cartridge Check Form?			
	ACTION:	If no, take action specified in 3.2 above.			
	11.3 Was	GPC Cleanup (method 3640A) performed?			
	NOTE:	GPC cleanup is not required and is optional. The reviewer should check Project Plan to verif requirement.	У		
		e the same PCB analytes used in calibration used check the efficiency of the cleanup procedures?	1		
	surr of t	percent recoveries (% R) of the PCBs and rogate compounds used to check the efficiency the cleanup procedures within lab's in-house QC its (use 70-130% if not available)	Γı		
		30% for GPC calibration?	<u> </u>		
	/ U - 1 3	200 TOT REC CUITNIACTON:			

YES NO N/A

___ [_] ___

___ [] ___

Qualify only the analyte(s) which fail the recovery criteria as follows:

ACTION: If % R are < 80%, qualify positive results "J" and quantitation limits "UJ". Non-detects should be qualified "R" if zero %R was obtained for PCBs. Use professional judgement to qualify positive results if recoveries are greater than the upper limit.

12.0 PCB Identification

12.1	Has CLP Form X or equivalent, showing retention time	
	data for positive results on the two GC columns, been	
	completed for every sample in which a PCB	
	was detected?	

ACTION: If no, take action specified in 3.2 above, or compile a list comparing the retention times for all sample hits on the two columns.

12.2 Are there any transcription/calculation errors between raw data and data summary forms (initial calibration summaries, calibration verification summaries, analytical sequence summaries, GPC and cleanup verification forms)?

ACTION: If large errors exist, call lab for explanation/resubmittal, make necessary corrections and note error in the data assessment.

12.3 Are retention times (RT) of sample compounds within the established RT windows for both columns/analyses?

ACTION: Qualify as unusable (R) all positive results which were not confirmed by second GC column analysis. Also qualify "R", unusable, all positive results not within RT windows unless associated standard compounds are similarly biased. The reviewer should use professional judgement to assign an appropriate quantitation limit.

12.4 Check chromatograms for false negatives, especially if RT windows on each column were established differently.

Were there any false negatives?

5 —	15	-PCB
	15	-PCB

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YES NO N/A

ACTION: Use professional judgement to decide if the compound should be reported. If there is reason to believe that peaks outside retention RT

assessment.

12.5 Was GC/MS confirmation provided when sample concentration was sufficient (> 10 ug/ml) in the final extract?

ACTION: Indicate with red pencil which Form I results were confirmed by GC/MS and also note in data

assessment.

12.6 Is the percent difference (%D) calculated for the positive sample results on the two GC columns <25.0%?

NOTE:

The method requires quantitation from one column. The second column is to confirm the presence of an analyte. It is the reviewer's responsibility to verify from the project plan what the lab was required to report. If the lab was required to report concentrations from both columns, continue with validation for % Difference. If required, but not reported, either contact the lab for results or calculate the concentrations from the calibration. If not required, skip this section. Document actions in Data Assessment.

ACTION:

If the reviewer finds neither column shows interference for the positive hits, the data should be qualified as follows:

% Differe	<u>ence</u>	<u>Qualifier</u>
0-25%		none
26-70%		"J"
71-100%		"NJ"
>100% *		"R"
100-200%	(Interference detected) **	"NJ"
>50%	(PCBs value is <crql)< td=""><td>"U"</td></crql)<>	"U"

When the <u>reported PCBs value is <CRQL and the %D is >50%, raise the value to the CRQL and qualify with "U" (non-detect).</u>

* Check the chromatogram. If pattern is confirmed qualify "J". If pattern is mixed, has interference, or the PCB cannot be positively determined due to weathering, qualify "JN".

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> YES NO N/A

If PCB can not be confirmed, qualify the PCB as "R".

** When the reported %D is 100-200% but interference is detected in either column, qualify the data with "NJ".

13.0 Compound Quantitation and Reported Detection Limits

13.1 Are there any transcription/calculation errors in Form I results? Check at least two positive values. Were any errors found?

NOTE: Single-peak PCBs results can be checked for rough

agreement between quantitative results obtained on the two GC columns. The reviewer should use professional judgement to decide whether a much larger concentration obtained on one column versus the other indicates the presence of an interfering compound. If an interference is suspected, the lower of the two values should be reported and qualified according to section 12.6 above. This necessitates a determination of an estimated concentration on the confirmation column. The narrative should indicate that the presence of interferences has led to the quantitation of the second column confirmation results.

13.2 Are the EDLs (Estimated Detection Limits) adjusted to reflect sample dilutions and, for soils, % moisture?

ACTION: If errors are large, call lab for explanation/resubmittal, make any necessary corrections and document effect in data

assessments.

ACTION:

When a sample is analyzed at more than one dilution, the lowest EDLs are used (unless a QC exceedance dictates the use of the higher EDL data from the diluted sample analysis). Replace concentrations that exceed the calibration range in the original analysis by crossing out the value on the original Form I and substituting it with data from the analysis of diluted sample. Specify which Form I is to be used, then draw a red "X" across the entire page of all Form I's that should not be used, including any in the summary package.

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YES NO N/A

ACTION: EDLs affected by large, off-scale peaks should be qualified as unusable, "R". If the interference is on-scale, the reviewer can provide a modified EDL flagged "UJ" for each affected compound.

14.0 Chromatogram Quality

14.1	Were baselines stable?	<u> </u>	
14.2	Were any electropositive displacement		
	(negative peaks) or unusual peaks seen?	[_]	L

ACTION: Note all system performance problems in the data assessment.

15.0 Field Duplicates

15.1 Were any field duplicates submitted for PCB analysis? [] _____

ACTION: Compare the reported results for field duplicates and calculate the relative percent difference.

ACTION: Any gross variation between field duplicate results must be addressed in the reviewer narrative. However, if large differences exist, the identity of the field duplicates is

questionable. An attempt should be made to determine the proper identification of field

duplicates.